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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,996	06/17/2005	Yuqi Zhang	113124-01US	1200
27189 PROCOPIO C	7590 11/13/200 ORY, HARGREAVES		EXAM	IINER
530 B STREET		, a si i i i i i i i i i i i i i i i i i	MULLER,	BRYANR
SUITE 2100 SAN DIEGO.	CA 92101		ART UNIT	PAPER NUMBER
			3723	
			NOTIFICATION DATE	DELIVERY MODE
			11/13/2007	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@procopio.com PTONotifications@procopio.com

# Office Action Summary

Application No.	Applicant(s)	
10/539,996	ZHANG, YUQI	
Examiner	Art Unit	
Bryan R. Muller	3723	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.

  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
   Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status
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- Responsive to communication(s) filed on 17 June 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

### **Disposition of Claims**

- 4) Claim(s) 1-8 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6)⊠ Claim(s) 1-8 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 17 June 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some \* c) None of:
    - 1. Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_
    - 3. Copies of the certified copies of the priority documents have been received in this National Stage
    - application from the International Bureau (PCT Rule 17.2(a)).
  - \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- Notice of Inefference Oracle (150-52)
   Notice of Draftsperson's Patent Drawing Review (PTO-948)
   Notice of Draftsperson's Patent Drawing Review (PTO-948)
   Notice of Draftsperson's Patent Drawing Review (PTO-948)
  - Paper No(s)/Mail Date 7/25/2005, 9/12/2005.

- Interview Summary (PTO-413)
   Paper No(s)/Mail Date. \_\_\_\_\_.
- Notice of Informal Patent Application
- 6) Other: \_\_

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#### DETAILED ACTION

#### Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "121". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

#### Specification

 The disclosure is objected to because of the following informalities: the reference number "121" in the last line of page 3 in the specification is not shown in the drawings.
 Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

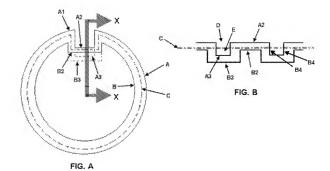
(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

 Claims 1-8 are rejected under 35 U.S.C. 102(a) as being anticipated by Zhang (CN 2522029Y).

5. In reference to claim 1, Zhang discloses all of the structure disclosed in the claim wherein the inner layer is considered to be the inner portion of the inner pipe and the outer portion is considered to be the inner pipe. The applicant does not claim, nor disclose that the inner liner layer is a separate part from the inner pipe. Therefore, the inner pipe is considered to be divided into an inn liner layer and an inner pipe layer. As seen below in figures A and B (Fig. B is a view along line X-X), when the inner pipe is divided along staggered line (C), the inner pipe section is provided with a plurality of detent holes (D) and the inner liner layer, which is fixed to the inner wall of the inner pipe section will clearly isolate the vacuum of the inner pipe from the detent holes.

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- In reference to claims 2 and 3, Zhang further discloses the locking device having all of the structure claimed in claims 2 and 3.
- 7. In reference to claims 4 and 5, Zhang further discloses that the second guiding member is a guiding slot (12) axially disposed at the outside wall of the inner pipe, and said first guiding member is a guiding rib (11) axially disposed at the inside wall of said guiding bush and slidably moved within said guiding recess, wherein the detent holes (9 or D above) are disposed at said guiding slot.
- 8. In reference to claim 6, Zhang further discloses that said inner liner layer is an inner liner tube (as shown in Fig. A above) which is provided at its outer wall with a groove (B3 above) extending axially along said inner liner tube and facing said detent holes.
- In reference to claim 7, Zhang further discloses that a clearance (E above) is provided between the outer surface of the inner liner tube and the inner surface of the

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inner pipe, and when the locking device is in the locking state, the detent pin will penetrate through one of the detent holes (D above) into the clearance.

10. In reference to claim 8, Zhang further discloses that said inner liner tube is provided with end sealing members (B4 above) at two ends of said groove to block the clearance between the outer wall of said inner liner tube and the inner wall of said inner pipe.

#### Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kim (6,454,308) and Xu (6,634,674) both disclose suction tubes having similar structure and function as the applicant's claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan R. Muller whose telephone number is (571) 272-4489. The examiner can normally be reached on Monday thru Thursday and second Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J. Hail III can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bryan R Muller/ Examiner, Art Unit 3723 11/7/2007